

**SLOVENSKI  
STANDARD**

**SIST EN 61558-1:1999**

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julij 1999

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Safety of power transformers, power supply units and similar - Part 1: General requirements and tests (IEC 61558-1:1997, modified)

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ICS 29.180

Referenčna številka  
SIST EN 61558-1:1999(en)

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 61558-1**

November 1997

ICS 29.180

Partly supersedes EN 60742:1995

Descriptors: Transformers, protective transformers, safety requirements, ability to withstand short circuit, overload protection, temperature rise, mechanical strength, isolation resistance, earthing

English version

**Safety of power transformers, power supply units and similar**  
**Part 1: General requirements and tests**  
**(IEC 61558-1:1997, modified)**

Sécurité des transformateurs, blocs  
d'alimentation et analogues  
Partie 1: Règles générales et essais  
(CEI 61558-1:1997, modifiée)

Sicherheit von Transformatoren,  
Netzgeräten und dergleichen  
Teil 1: Allgemeine Anforderungen  
und Prüfungen

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This European Standard was approved by CENELEC on 1997-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

## Foreword

The text of document 96/47/FDIS, future edition 1 of IEC 61558-1, prepared by IEC TC 96, Small power transformers, reactors and power supply units and special transformers, reactors and power supply units: safety requirements, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61558-1 on 1997-07-01, together with common modifications prepared by the CENELEC BTTF 64-1, Isolating and safety isolating transformers.

This European Standard will supersede EN 60742:1995 when the last part 2 of EN 61558 dealing with EN 60742 will be ratified.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) -

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A to K, ZA and ZB are normative and annexes L to U are informative.

Annexes ZA and ZB have been added by CENELEC.

This part 1 is to be used in conjunction with the appropriate part 2, which contains clauses that supplement or modify the corresponding clauses in this part 1, to provide the relevant particular requirements for each type of product.

## **Endorsement notice**

The text of the International Standard IEC 61558-1:1997 was approved by CENELEC as a European Standard with agreed common modifications as given below.

## COMMON MODIFICATIONS

20 Components

### 20.3 Add a note after the second paragraph:

**NOTE:** As IEC 60906-3 covers only 6, 12, 24, 48 V, the attention of the appliance manufacturer is called that:

- either their appliance with intermediate supply voltage shall be able to withstand the immediate upper voltage;
  - or, to ask for SC 23C of IEC to design intermediate values.

Other plugs and socket-outlets systems are allowed for associated transformers only.

## **2.2 Supply connection and other external flexible cables or cords**

**22.5 Replace "code designation 53 of IEC 60245-1" by "code designation H05 RR-F" and replace "code designation 53 of IEC 60227-1" by "code designation H05 VV-F or H05 VVH2-F"**

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For IPX0 transformers with a mass less than 3 kg, the power supply cords shall be not lighter than H03 VV-F

### 23 Terminals for external conductors

23.1 Replace in the third paragraph "IEC 60947-7-2" by "IEC 60947-7-1".

## **Annex S Bibliography**

Add the following notes for the standards indicated:

IEC 60038 NOTE: Harmonized as HD 472.61:1989 (modified)

IEC 60555-1 NOTE: Harmonized as EN 60555-1:1987 (not modified)

CISRR 11 NOTE: Harmonized as EN 55011-1:2021 / 2021-06

CISPR 14 NOTE: Harmonized as EN 55014-1:2022 / IEC 61000-1:2022

Annex ZA (normative)

Special national conditions

**Special national condition:** National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions. If it affects harmonization, it forms part of the European Standard or Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

Clause      Special national condition

8.7      Denmark

Supply cords of class I transformers which are supplied without a plug, shall be provided with a visible tag containing the following text:

Vigtigt!

Lederen med grøn / gul isolation  
må kun tilsluttes en klemme mærket  
 eller 

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(Important! The conductor having green/yellow insulation shall only be connected to a terminal marked  or 

If it is essential for the safety of the transformer, the tag shall be provided either with a wiring diagram showing the connection of the other conductors or with the following text:  
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For tilslutning af de øvrige ledere,  
se medfølgende installationsvejledning.

(For the connection of the other conductors, see the enclosed instructions for installation.)

France (Décret n° 66.660 du 8 septembre 1966 en application de la loi n° 60.1375 du 21 décembre 1960)

The general French regulations prescribe that transformers having a rated supply voltage of 127 V require also the value 220 V.

22.8

**Denmark** (Danish Heavy Current Regulation, section 107-2-D1)

Replace the second paragraph by the following:

Supply cords of single-phase transformers having a rated current not exceeding 10 A shall be provided with a plug according to the following:

- Stationary class I transformers having a protection index IP 20
  - Section 107-2-D1
  - Standard Sheet DK 2-1a
  - or
  - IEC 83, Standard Sheet C 2b, C 3b or C 4
- Stationary class I transformers having a protection index higher than IP 20 and portable class I transformers with a rated input exceeding 630 V
  - Section 107-2-D1,
  - Standard Sheet DK 2-1a
- Class II transformers
  - IEC 83,
  - Standard Sheet C5 or C8

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If multi-phase transformers and single-phase transformers having a rated current exceeding 10 A are provided with a supply cord and a plug, the plug shall comply with the following table:

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Class	Section 107-2-D1 Standard sheet	EN 60309-2 Standard sheet
I	DK 6-1a	2-II, 2-IV
II	DK 6-1a*	2-II, 2-IV*

\* Earthing contact not connected.  
\*\* These plugs are also allowed for transformers having a rated current equal to or less than 10 A.

## Sweden

Power supply flexible cables and cords of single-phase transformers having an input current at rated output not exceeding 16 A, shall be provided with a plug complying with CEE Publication 7, Standard sheets to be applied as follows:

Class I transformers Standard sheet IV, VI or VII;  
Class II transformers Standard sheet XVI or XVIII.

Annex ZB (normative)

**Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 50(421)	1990	International electrotechnical vocabulary Chapter 421: Power transformers and reactors	-	-
IEC 60051	series	Direct acting indicating analogue electrical-measuring instruments and their accessories	EN 60051	series
IEC 60065 (mod)	1985	Safety requirements for mains operated electronic and related apparatus for household and similar general use <small>SIST EN 61558-1:1999 <a href="https://standards.iteh.ai/catalog/standards/sist/a27a1362-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999">https://standards.iteh.ai/catalog/standards/sist/a27a1362-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999</a></small>	EN 60065 <sup>1)</sup> + corr. November 1993	1993
IEC 60068-2-2	1974	Basic environmental testing procedures Part 2: Tests - Test B: Dry heat	EN 60068-2-2 <sup>2)</sup>	1993
IEC 60068-2-6	1982	Test Fc and guidance: Vibration (Sinusoidal)	HD 323.2.6 S2 <sup>3)</sup>	1988
IEC 60068-2-32	1975	Test Ed: Free fall	EN 60068-2-32 <sup>4)</sup>	1993
IEC 60068-2-63	1991	Part 2: Test methods - Test Eg: Impact, spring hammer	EN 60068-2-63	1994
IEC 60076-1 (mod)	1993	Power transformers Part 1: General	EN 60076-1	1997
IEC 60083	1975	Plugs and socket-outlets for domestic and similar general use - Standards	-	-
IEC 60085	1984	Thermal evaluation and classification of electrical insulation	HD 566 S1	1990

1) EN 60065 includes A1:1987 + A2:1989 + A3:1992 to IEC 60065.

2) EN 60068-2-2 includes supplement A:1976 to IEC 60068-2-2.

3) HD 323.2.6 S2 is superseded by EN 60068-2-6:1995, which is based on IEC 60068-2-6:1995.

4) EN 60068-2-32 includes A2:1990 to IEC 60068-2-32:1975.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60112	1979	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	HD 214 S2	1980
IEC 60127	series	Miniature fuses	EN 60127	series
IEC 60216	series	Guide for the determination of thermal endurance properties of electrical insulating materials	HD 611 EN 60216	series series
IEC 60227 (mod)	series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21	series
IEC 60245 (mod)	series	Rubber insulated cables - Rated voltages up to and including 450/750 V	HD 22	series
IEC 60269-2	1986	Low-voltage fuses Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)	EN 60269-2	1995
IEC 60269-2-1 (mod)	1987	Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) Sections I to III	HD 630.2.1 S1 <sup>5)</sup>	1996
IEC 60269-3	1987	Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) <a href="https://standards.tech.ai/catalog/standards/sist/a27/a136-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999">https://standards.tech.ai/catalog/standards/sist/a27/a136-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999</a>	EN 60269-3	1995
IEC 60269-3-1 (mod)	1994	Part 3-1: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) -- Sections I to IV	HD 630.3.1 S2 <sup>6)</sup>	1997
IEC 60309 (mod)	series	Plugs, socket-outlets and couplers for industrial purposes	EN 60309	series
IEC 60317	series	Specifications for particular types of winding wires	EN 60317	series
IEC 60320 (mod)	series	Appliance couplers for household and similar general purposes	EN 60320	series
IEC 60364-4-41 (mod)	1992	Electrical installations of buildings Part 4: Protection for safety Chapter 41: Protection against electric shock	HD 384.4.41 S2	1996

5) HD 630.2.1 S1 is superseded by HD 630.2.1 S2:1997, which is based on IEC 60269-2-1:1996, mod.

6) HD 630.3.1 S2 includes A1:1995 to IEC 60269-3-1.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60364-5-51 (mod)	1994	Part 5: Selection and erection of electrical equipment -- Chapter 51: Common rules	HD 384.5.51 S2	1996
IEC 60384-14	1993	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	-	-
IEC 60417	1973	Graphical symbols for use on equipment Index, survey and compilation of the single sheets	HD 243 S12 <sup>7)</sup>	1995
IEC 60449	1973	Voltage bands for electrical installations of buildings	HD 193 S2 <sup>8)</sup>	1982
IEC 60454	series	Pressure-sensitive adhesive tapes for electrical purposes	EN 60454	series
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60536	1976	Classification of electrical and electronic equipment with regard to protection against electric shock	HD 366 S1	1977
IEC 60536-2	1992	Part 2: Guidelines to requirements for protection against electric shock <a href="https://standards.iec.ch/standard/60536-2-27/362-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999">https://standards.iec.ch/standard/60536-2-27/362-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999</a>	-	-
IEC 60664-1 (mod)	1992	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	HD 625.1 S1 + corr. November	1996 1996
IEC 60664-3	1992	Part 3: Use of coatings to achieve insulation coordination of printed board assemblies	HD 625.3 S1	1997
IEC 60691	1993	Thermal-links - Requirements and application guide	EN 60691 <sup>9)</sup>	1995
IEC 60695-2-1/0	1994	Fire hazard testing Part 2: Test methods Section 1/sheet 0: Glow-wire test methods General	EN 60695-2-1/0	1996
IEC 60695-2-1/1	1994	Section 1/sheet 1: Glow-wire end-product test and guidance	EN 60695-2-1/1 <sup>10)</sup>	1996

7) HD 243 S12 includes supplements A:1974 to M:1994 to IEC 60417.

8) HD 193 S2 includes A1:1979 to IEC 60449.

9) EN 60691 includes A1:1995 to IEC 60691.

10) EN 60695-2-1/1 includes corrigendum May 1995.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60707	1981	Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source	HD 441 S1	1983
IEC 60730-1 (mod)	1993	Automatic electrical controls for household and similar use Part 1: General requirements	EN 60730-1 + corr. April + A11 + A12	1995 1997 1996 1996
IEC 60738-1	1982	Directly heated positive step-function temperature coefficient thermistors Part 1: Generic specification	-	-
IEC 60851	series	Methods of test for winding wires	HD 490 EN 60851	series series
IEC 60884-1	1994	Plugs and socket-outlets for household and similar purposes Part 1: General requirements	-	-
IEC 60884-2-4	1993	iTeh STANDARD PREVIEW Part 2: Particular requirements for plugs and socket-outlets for SELV <a href="https://standards.iteh.ai">standards.iteh.ai</a>	-	-
IEC 60898	1995 <sup>11)</sup>	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations <a href="https://standards.iteh.ai/catalog/standards/sist/a27a1362-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999">https://standards.iteh.ai/catalog/standards/sist/a27a1362-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999</a>	-	-
IEC 60906-1	1986	IEC System of plugs and socket-outlets for household and similar purposes Part 1: Plugs and socket-outlets 16 A 250 V a.c.	-	-
IEC 60906-3	1994	Part 3: SELV plugs and socket-outlets, 16 A 6 V, 12 V, 24 V, 48 V, a.c. and d.c.	-	-
IEC 60947-7-1	1989	Low-voltage switchgear and controlgear Part 7: Ancillary equipment Section 1: Terminal blocks for copper conductors	EN 60947-7-1 + corr. June + A11	1991 1997 1997
IEC 60990	1990	Methods of measurement of touch-current and protective conductor current	-	-
IEC 60998-1 (mod)	1990	Connecting devices for low-voltage circuits for household and similar purposes Part 1: General requirements	EN 60998-1	1993

11) IEC 60898:1987 + corrigendum May 1988 + A2:1990 + A3:1990 + corrigendum August 1990, modified are harmonized as EN 60898:1991. This European Standard applies with its corrigendum October 1991 and its amendments A1:1991 (IEC 60898:1987/A1:1989) and A11:1994 up to A16:1996.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60998-2-1 (mod)	1990	Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	EN 60998-2-1	1993
IEC 60998-2-2	1991	Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units	EN 60998-2-2	1993
IEC 60999-1 (mod)	1990	Connecting devices - Safety requirements for screw-type and screwless-type clamping units for electrical copper conductors Part 1: General requirements and particular requirements for conductors from 0,5 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)	EN 60999-1 + corr. March	1993 1997
IEC 61000-3-2	1995	Electromagnetic compatibility (EMC) Part 3: Limits -- Section 2: Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	EN 61000-3-2 + corr. July + A13	1995 1997 1997
IEC 61000-3-3	1994	Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current up to and including 16 A	EN 61000-3-3 + corr. July	1995 1997
IEC 61032	1990	SIST EN 61558-1:1999 <a href="https://standards.iec.ch/catalog/standards/sist/a27a1/62-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999">https://standards.iec.ch/catalog/standards/sist/a27a1/62-771b-4488-a952-3512f70c4b9a/sist-en-61558-1-1999</a>	HD 601 S1	1991
IEC 61058-1	1990	Switches for appliances Part 1: General requirements	EN 61058-1	1992
IEC 61140	1992	Protection against electric shock - Common aspects for installation and equipment	-	-
ISO 3	1973	Preferred numbers - Series of preferred numbers	-	-
ISO 4046	1978	Paper, board, pulp and related terms Vocabulary	-	-
ISO 8820	series	Road vehicles - Blade-type electric fuse-links	-	-

# NORME INTERNATIONALE INTERNATIONAL STANDARD

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**Sécurité des transformateurs, blocs d'alimentation  
et analogues –**

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Règles générales et essais  
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**Safety of power transformers, power supply units  
and similar –**  
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**Part 1:  
General requirements and tests**

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